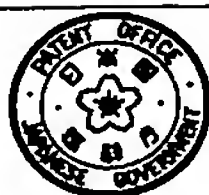


(19)



JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 2003192691 A

(43) Date of publication of application: 09.07.2003

(51) Int. Cl. C07F 15/00  
C09K 11/06, H05B 33/14, H05B 33/22

(21) Application number: 2001394446  
(22) Date of filing: 26.12.2001

(71) Applicant: MITSUBISHI CHEMICALS CORP  
(72) Inventor: AKIYAMA SEIJI  
SATO HIDEKI  
SATO YOSHIHARU

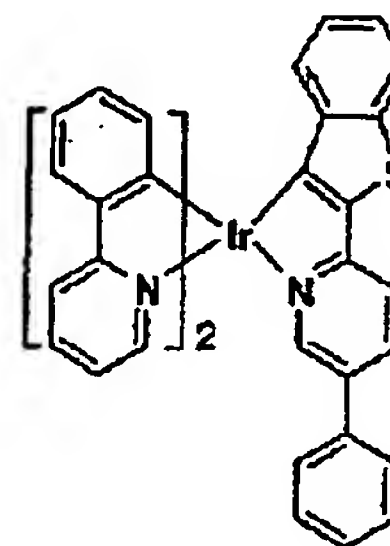
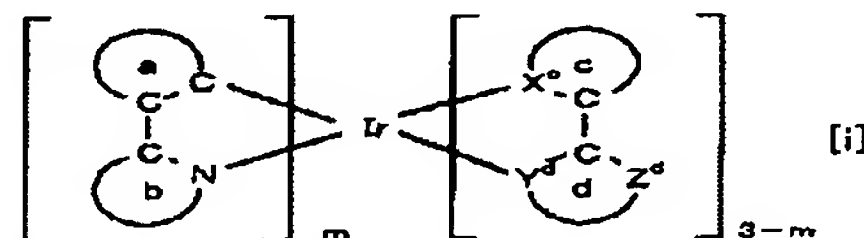
(54) ORGANIC IRIIDIUM COMPLEX AND ORGANIC ELECTROLUMINESCENT ELEMENT

COPYRIGHT: (C)2003,JPO

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a new mixed ligand-having organic iridium complex giving a luminescent element having improved color purity in the emission of light of long wavelength, high luminescent efficiency and a long life and provide an organic electroluminescent element produced by using the organic iridium complex.

SOLUTION: The mixed ligand-having organic iridium complex is expressed by general formula (i), e.g. formula (ii). The organic electroluminescent element has a luminescent layer sandwiched between an anode and a cathode. The luminescent layer contains the mixed ligand-type organic iridium complex.



(C) WPI / DERWENT

AN - 2004-259711 [25]  
AP - JP20010394446 20011226  
CPY - MITU  
DC - A85 E11 E12 E24 L03 U14  
FS - CPI;EPI  
IC - C07F15/00 ; C09K11/06 ; H05B33/14 ; H05B33/22  
MC - A12-E11C E24-A04C L03-G05F  
- U14-J02D2  
M4 - [01] A677 A923 D013 D300 F012 F015 F019 F431 F499 G010 G011 G019 G100  
M1 M113 M116 M119 M121 M123 M129 M144 M280 M320 M411 M511 M523 M533  
M540 M781 M904 M905 Q130 Q454 Q613 R043 W002 W030 W335; RADDJ5-K  
RADDJ5-U  
- [02] A677 A923 D010 D019 D020 D029 D040 D049 F010 F019 F020 F029 G001  
G002 G010 G011 G012 G013 G019 G020 G021 G022 G029 G040 G100 G111 G112  
G221 G299 M1 M113 M115 M116 M119 M121 M122 M123 M124 M125 M126 M129  
M144 M280 M320 M411 M511 M512 M520 M521 M522 M523 M531 M532 M533 M540  
M781 M904 M905 Q130 Q454 Q613 R043 W002 W030 W335; 0123-73301-K  
0123-73301-U  
PA - (MITU ) MITSUBISHI CHEM CORP  
PN - JP2003192691 A 20030709 DW200425 C07F15/00 055pp  
PR - JP20010394446 20011226  
XA - C2004-101488  
XIC - C07F-015/00 ; C09K-011/06 ; H05B-033/14 ; H05B-033/22  
XP - N2004-206410  
AB - JP2003192691 NOVELTY - The novel mixed ligand with organic iridium  
complex.  
- USE - In organic electroluminescent element.  
- ADVANTAGE - The mixed ligand with organic iridium complex provides  
electroluminescent element with improved color purity in the emission  
of light of long wavelength, luminescent efficiency and shelf life.  
- (Dwg.0/0)  
CN - RADDJ5-K RADDJ5-U 0123-73301-K 0123-73301-U  
IW - MIX LIGAND ORGANIC IRIIDIUM COMPLEX ORGANIC ELECTROLUMINESCENT ELEMENT  
NEW  
IKW - MIX LIGAND ORGANIC IRIIDIUM COMPLEX ORGANIC ELECTROLUMINESCENT  
ELEMENT  
NEW  
NC - 001  
OPD - 2001-12-26  
ORD - 2003-07-09  
PAW - (MITU ) MITSUBISHI CHEM CORP  
TI - Mixed ligand with organic iridium complex for use in organic  
electroluminescent element, is new  
A01 - [001] 2004 ; P0000  
- [002] 2004 ; ND01 ; K9416 ; K9676-R ; K9483-R ; Q9999 Q9472 Q7512